

IN THE CLAIMS:

Please amend the claims as follows:

Claim 1 (Currently Amended): A liquid crystal display including liquid crystal pixel cells arranged at each intersection between a plurality of gate lines and a plurality of data lines, comprising:

a thin film transistor associated with each pixel cell;
a storage capacitor; and

a smectic liquid crystal between an upper substrate and a lower substrate, wherein the smectic liquid crystal has spontaneous polarization in a range of 2nC/cm^2 to 10nC/cm^2 ~~70nC/cm^2~~ and a unit storage capacitance is in a range of 1nF/cm^2 to 4.5nF/cm^2 ~~7nF/cm^2~~ for optimizing transmittance depending on the spontaneous polarization of the smectic liquid crystal.

Claims 2-3 (Cancelled).

Claim 4 (Currently Amended): A liquid crystal display including liquid crystal pixel cells arranged at each intersection between a plurality of gate lines and a plurality of data lines, comprising:

a thin film transistor associated with each pixel cell;
a storage capacitor; and
a smectic liquid crystal between an upper substrate and a lower substrate, wherein the smectic liquid crystal has spontaneous polarization is in a range of 70nC/cm^2 to 100nC/cm^2 and a unit storage capacitance is in a range of 5nF/cm^2 to 13nF/cm^2 for optimizing transmittance depending on the spontaneous polarization of the smectic liquid crystal.

Claim 5 (New): A liquid crystal display including liquid crystal pixel cells arranged at each intersection between a plurality of gate lines and a plurality of data lines, comprising:

a thin film transistor associated with each pixel cell;

a storage capacitor; and

a smectic liquid crystal between an upper substrate and a lower substrate, wherein the smectic liquid crystal has spontaneous polarization in a range of $10\text{nC}/\text{cm}^2$ to $70\text{nC}/\text{cm}^2$ and a unit storage capacitance is in a range of $4\text{nF}/\text{cm}^2$ to $7\text{nF}/\text{cm}^2$ for optimizing transmittance depending on the spontaneous polarization of the smectic liquid crystal.